Table 1. Status of ASTM , Canadian, and European about Testing Insulating Glass Units (IGUs) and IGU Seal Durability

Status	Title of Standard	Title of Standard	
In Force	ASTM E 546-88(1999)e1	Standard Test Method for Frost Point of Sealed Insulating Glass Units	U.S.
In Force	ASTM E 546-88(1999)e1	Standard Test Method for Frost Point of Sealed IGUs in the Vertical Position	U.S.
In Force	ASTM E 773-97	Standard Test Method for Accelerated Weathering of Sealed Insulating Glass Units	U.S.
In Force	ASTM E 774-97	Standard Specification for the Classification of the Durability of Sealed IGUs	U.S.
In Force	ASTM E 1887-97	Standard Test Method for Fog Determination	U.S.
In Force	CAN/CGSB 12.8	Insulating Glass Units	Canada
In Force	CAN/CSA A440-M	Windows	Canada
In Force	DIN 52 293	Testing the Tightness of Gas-filled Insulating glazing units	Germany
In Force	DIN 52 344	Test of Glass; Testing the Effect of Alternating, etc.	Germany
In Force	NF P 78-451	Glazing and Mirrors, IGUs, Moisture Penetration Resistance Tests	France
In Force	JIS R 3209	Sealed Insulating Glass	Japan
Draft*	ASTM E XXX	New Standard Test Method for Insulating Glass Unit Performance	
Draft*	ASTM E YYY	New Standard Test Method for Testing Resistance to Fogging in IGUx	
Draft*	ASTM E ZZZ	New Standard Specification for IGU Performance and Evaluation	
Draft	ASTM E XXXX	New Standard Test Method for Estimating the Inert Gas Level in Sealed Insulating Glass Units Using an Oxygen Analyzer	
Draft	ASTM E AAA	New Standard Test Method for Determining the Gases Present in Sealed Insulating Glass Units Using a Gas Chromatograph	

European Standards are Being Developed by the Technical Committee CEN/TC 129 Glass in Buildings of which Six Parts are Related to "Glass in Buildings - Insulating Glass Units." These draft standards are now being circulated for comments.

Draft**	prEN 1279-1	Part 1: Generalities, Dimensional Tolerances and Rules for the System Description
Draft**	prEN 1279-2	Part 2: Long Term Test Method and Requirements for Moisture Penetration
Draft**	prEN 1279-3	Part 3: Long Term Test Method and Requirements for Gas Leakage Rate and for Gas Concentration Tolerances
Draft**	prEN 1279-4	Part 4: Methods of Tst for the Physical Attributes of Edge Seals
Draft**	prEN 1279-5	Part 5: Evaluation of Conformity
Draft**	prEN 1279-6	Part 6: Factory Production Control and Periodic Tests

* These new standards are being developed for N. America as harmonized insulating glass standards (HIGS) between those used in the U.S. and Canada with E-XXX, E-ZZZ, and E-YYY serving as modifications of E773-97, E-774-97, and E 1887-97, respectively. They have been balloted several times at the task group level and will be balloted at the E06.22 subcommittee and E6 committee levels in early 2001.

** These draft standards, which are dated September 2000, are all in an advanced stage of development. Each part is not a stand-alone standard but the entire set of 1279-1 through –6 must be used collectively. A copy of these documents is available from R. Pitts at NR**EL.**